PERFORMANCE STANDARDS SUMMARY WITH INFORMAL QUESTIONS/COMMENTS FOR EPA Lower 8.3 Miles of the Lower Passaic River

General comment on all performance standards - the performance standards cover information that would typically be included in the Design Team's work plans, specifications, and design, and may therfore not be needed, at least not in the level of detail that they have been prepared. EPA, its consultants and experts will have input to all remedial design deliverables via the review and comment process, and be afforded the opportunity to add requirements as the remedial design is developed. We recommend against the use of prescriptive performance standards because additional information obtained during the pre-design investigation and remedial design process may negate the need for some of these standards or introduce conflicts between the design and a performance standard that was developed before sufficient information was available to support it. Developing standards that will be in the public record will introduce opportunities for conflicting information between these standards and the reports, work plans, and other project documents that will be based on much more rigorous data and more complete information.

Performance Standard	Key Components Associated with Standard Dredge Design RM 0 to RM 0.6 - dredge to 30 ft below MLW RM 0.6 to RM 1.7 - dredge to 20 ft below MLW RM 1.7 to RM 8.3 - dredge an estimated 2.5 feet below MLW	Additional Information from EPA on Standards Design must not increase potential for flooding. Depth of dredging/volume could be reduced if thinner caps are designed that are equivalent to cap design below.	Questions or Comments for EPA Can we have limited areas with little or no dredging prior to capping?	Notes from 1/26/17 Meeting and Responses to Follow-on Comments Stabilization layer needed very soon after dredging and bathymetry survey. Consider thin cap with buffer on top to make clean cap surface later. Can have limited areas next to bulkheads with no dredging as long as it's made up in the same transect.
	Sediment Handling and Processing Design Barge or pump to processing facility in the vicinity of the shoreline Dewater sediment using method capable of high production Separate sand from sediment for possible beneficial reuse Transport dewatered sediment to permitted disposal facility	Dewatered sediment can be transported via barge, rail or truck, to a permitted disposal facility in the U.S. or Canada. Production rate through the plant must not limit dredging or capping production.		
	Must be able to withstand 100-year storm event Must be able to withstand propwash from vessels, ice rafting, and ice jams without measureable loss or release of COCs (Dioxin, Total PCBs,	must be equivalent to this design in performance, achieve required depths in the nav channel below RM 1.7, and not increase flooding potential. Should meet or exceed capping guidance from USACE and EPA for erosion protection, chemical isolation, bioturbidity, consolidation, scour from propeller wash, ice rafting, and ice jams. Measurable loss defined as loss of 3 inches of cap thickness over 4,000 sf or over 20% contiguous area of a CU. Breakthrough of COCs is defined as measurable	An option in stable, less contaminated sections of the river would be to increase flood capacity by decreasing the cap thickness so the post remediation bed elevation is below existing conditions. The additional water depth will promote deposition. Cannot create more flood capacity after cap is installed. This implies COC concentrations would be non-detect - was this intended?	Breakthrough should be based on the PRG for the COCs (i.e., risk-based).
	Based on COC concentrations at the post-dredge surface, as determined during the PDI	concentrations in the portion of cap just above the chemical isolation layer. Cores must have adequate lateral spacing and vertical resolution to allow for this determination within acceptable tolerances and which allows for design of the chemical isolation layer of the cap consistent with EPA and USACE capping guidance. "Clean boundary" is defined as free of contamination.	concentration pollutants. Are the additional pollutants included in the risk evaluation more than the 4 COCs? If so, the added contaminants	
Cap Design and Construction	Design for dredging to a clean neatline and backfill to be placed from RM 0 to RM 1.7, or, if neatline not clean include cap Capping of Mudflats 1 foot of sand + 1 foot of habitat layer	occar boundary is defined as free or containfillation.	need to be identified. In all but the deepest areas, a significant armor layer is required to be part of the cap. Have data been compiled on ice jams/rafting on the LPR? How does this apply to mudflat areas?	
	Entire area except where all contamination is removed Must be placed in two or more lifts	RD Team to select means and methods, to be guided by the engineering performance standards. First lift is to stabilize residuals, subsequent lifts for chemical isolation.		
	Verify sufficient dredging prior to installation Stabilization of residuals to be performed immediately after dredging	Install sand lift immediately after dredging.	What does "immediately" mean – depending or definition, could be very expensive requirement. This requirement assumes significant residuals are generated regardless of	
	Subsequent lifts of cap to be placed prior to the end of each season.	This will prevent damage from significant storm events. Storm event currently undefined.	dredging method and assumes that they must be covered to prevent remobilization.	
	Cap surface COC concentrations in the upper six inches after placement in a CU must be TBD (e.g. weighted average across CU does not exceed 20% of RGs) AND/OR must be no more than TBD % of the RGs at the end of construction. Post-placement cap thickness must be verified as meeting design		Does the COC concentration in the top 6 inches apply to armor layer? How would this be measured?	
	Final cap surface elevation must be at or below the pre-dredge baseline sediment surface elevation over greater than 95 % of the area.	The baseline surface elevation is based on the bathymetry for 201x before the start of construction.		
	Institutional Controls for Caps	To be specified at a later date, but cap design must comply with these.		
	Long-term Monitoring and Maintenance of Caps Cap Measurements Dredge surface elevation	Needs to specify types of measurements and frequency.	Long term monitoring should begin a number of years after remediation is complete. A post remediation monitoring event is warranted but the long term monitoring should allow the river system to equilibrate to a normal condition	
	Place cap thickness of each layer Placed thickness of mudflat reconstruction layer Cap surface elevation	Immediately after placement, one year post-placement, and after a significant storm event Establish new baseline elevation if consolidation occurs,	before long term monitoring begins.	
		repair cap if erosion or damage has occurred.		
	Resuspension during Dredging and Capping Design to limit migration of COCs from dredging/capping operations	Concern is for migration to upper 9 miles, Newark Bay, and to the New York-New Jersey Estuary. "these standards together will serve to verify that the various cap layers and their design thicknesses will be placed as intended in the desired locations to secure the long-term performance and effectiveness of the cap."	that is dredged. Thickness of settled layer is assumed to be about an inch (?).	Grain size information is not representing differences in a grid cell.
	Speed of project vessels (dredging platform, tugs, and barges) and their movement shall be controlled (as per N.J.S.A. 12:7-45 Speed of Power Vessels and N.J.A.C. 13:82-1.7 Speed – NJ State Police Marine Services		This statement of "no resuspension" from project vessels is impractical and likely can't be enforced.	
	Bureau) so that they do not create excessive wakes and do not contribute to resuspension. No dredging or capping will be performed in an area when the river velocity is more than four feet per second (see Attachment E		Could be a costly criteria depending on when these conditions occur relative to in-water work windows and may be incompatible with other	
	for supporting analysis).		PS.	
Resuspension	Stabilization of dredging residuals in a CU must be completed immediately after EPA's acceptance of the dredged surface in order to minimize resuspension. However, there must be no placement of subsequent lifts of capping material in a CU when dredging is being performed in		See comments above on "immediate". Seems very challenging to implement and track all these conditions; particularly the COCs which can't be analyzed in real time and take several days for results. Will need to have developed relationships for each COC and turbidity to be	

	an adjacent CU or within a distance of 1000 feet upriver or downriver.			
	Required Response/Corrective Actions		Seems very challenging to implement and track	
			all these conditions; particularly the COCs which can't be analyzed in real time and take several	
			days for results. Will need to have developed relationships for each COC and turbidity to be	
			Since the ROD references the performance	
			standards, we recommend keeping them as flexible as possible and not too prescriptive. For example, resuspension could be addressed as	
			part of adaptive management, on an as-needed basis determined during implementation of the	
			remedy. This would avoid requiring measures that may be needed at some but perhaps not all	
			locations.	
	Productivity for Dredging and Capping	' '		Need to complete construction work
	Maintain operations at required pace to meet schedule in the ROD	standards.		in 6 years, 5 yrs. dredging @ 583,000 cy per year and 1 year to complete
		Bridges constrain access by vessels, so coordination with authorities would be required if mechanical dredging is performed. This would impact productivity. The use of	How has this requirement been integrated into	capping.
	No in-river activities (dredging or capping) during 17-week fish window Up to 3 weeks of non-consecutive downtime each year for equipment	hydraulic dredging would avoid these problems.	the dredging production rates? This could be a significant issue for the schedule.	
	repair and weather-related delays Construction of a processing facility sized to handle approximately 739,200			
	cy per season (average of 3,850 in situ cy per day) Capping rate assumed to keep up with dredging.		We recommend removing requirements for	
	Remedial design to determine minimum production quota based on: dredging removal method, rates and sequence		annual dredging volumes and dredging six days/week and instead rely on the contractor	
Productivity	sediment processing facility location and size volume of sediment to be removed		to determine how best to meet the schedule.	
	length of fish window equipment breakdown and weather delays		We recommend against having a productivity standard, and instead leaving this up to the	
	cap placement method, rates and sequence distance between capping and dredging operations		contractors who will pursue winning this work competitively. Experienced contractors will	
			want to complete the work in the most cost- effective and efficient way possible which is typically the shortest practical schedule.	
			Imposing productivity standards compels contractors to assume contingencies and	
			additional time for unknowns in the performance standards, such as how often their	
			work may be interrupted for high river flow.	
	Air Quality, Navigation, Odor, Noise and Light Standards Establish baseline conditions over a month or more		Quality of Life PS (QoLPS) will be covered in the Community HASP.	Have complaint management system, traffic management plan, will always
	Have complaint management system			have some bridge openings. LB/EPA to provide information on references
	Follow regulatory requirements			and/or local regulations.
	minimize shore term impacts to surrounding communities	Standards were developed to achieve the objectives of the		
	Utilize EPA's Clean and Green Policy - promote sustainable technologies	ROD in minimizing impacts to residents, workers and others while maintaining some flexibility in the remedial design.		
	- protect human health and the environment by achieving RA goals	These standards are performance-oriented rather than prescriptive with regard to means and methods, and were developed to comply with local, state, & federal ARARs.		
	- minimize impacts to water quality and water resources	The standards include goals to be achieved and BMPs from the pilot dredging project and other projects. The		
	- reduce air emissions and greenhouse gas production - minimize material use and waste production	standards were also designed to work together and individually to achieve project goals.		
	- conserve natural resources and energy			
	Contention of the content of the con	Compliance with these performance standards must be demonstrated during RD and verified during RA. This		
	(12) (1) (und site i esteration detirities)	includes potential impacts at the sediment processing facility in addition to the river. Applies differently to		
	as documented during RD based on modeling, calculations, etc.	stationary vs. mobile sources. RD team to conduct "detailed analyses" for in-river and		
	odors and developing contingency plans to address these odors.	upland areas. Applicable regulations are cited as:	In the performance standards for air emissions, EPA states that they do not expect air emissions	
	that could impact human health during RA using an air monitoring	NJAC 7:27-8 Permits and Certificates for Minor	to exceed established air emissions criteria. Has any modeling been done or have the previous	
	Include procedures for investigating and addressing odor complaints	Facilities (and Facilities Operating without an Operating Permit) for stationary sources	levels observed during the Tierra removal action been extrapolated to a higher production level	
	constact and of potential impact as 2,000 feet on state of five	Clean Air Act, 42 U.S.C. §§7401-7671 at 40 CFR Subchapter C, Parts 50-97	to support this possibility?	
		EPA IRIS EPA Regional Screening Levels	When will the "concern and exceedance" levels	
	pollutants found to have a high concentration in the sediment.	EPA Region 2 Clean and Green Policy OSHA 29 CFR 1919.1000 - 1052	focused on specific dioxins, metals, VOCs, SVOCs, pesticides, and PCBs mentioned for air	
		New Jersey Air Pollution Control Act	quality in Section 5.1.3 be available?	
	construction. This will include the site and locations near and away	New Jersey Regulations (NJAC 7:27-3) Opacity Regulations See page 30 of the PS for requirements of the plan.		
	RD Team to conduct dispersion modeling to estimate concentrations	Dispersion modeling to include 5 yrs. of meteorological data, terrain data, and predict concentrations within		
	AERMOD will be used.	1,000 feet or the shoreline.		
	out requirements for these on pages of the	Odor regulated in NJ under N.J.S.A. 26:C-1 and N.J.A.C.		
		7:27-1.1 and NJAC 7:27-5.2). Odor to be reported in accordance with RA CHASP, EPA to be notified within		
		24 hours and a report issued within 10 days on the reasons for the odor and mitigation efforts.		
	Performance Standards for Noise			
	Remedial program must minimize noise during all operations. Potential	RD Team needs to verify the construction and operation of the sediment processing facility will be in compliance	In Table 5.3.1 the comment section for a typical sound source for a crew/survey boat was a	
	other efforts to verify that "air emissions for operations"	with NJ's Noise Control regulations (NJAC 7:29).	"Police patrol boat – single 175 hp Johnson outboard engine at full throttle. One boat at a	
	· · · · · · · · · · · · · · · · · · ·	Pertinent regulations for noise: Federal Noise Control Action of 1972, NJ's Noise Control Act, noise control	given location." This is not a typical crew/survey boat and it will never be at full	
		ordinances for Newark, Kearney, and the Borough of North Arlington.	throttle so the example is too conservative.	
		RD Team responsible for characterizing existing noise	The quality of life standards should be applied to residential or mixed residential/industrial	
	for either daytime or nighttime operations.	through pre-construction noise monitoring.	portions of the river and not to predominantly industrial areas.	
	Where practicable, use of equipment generating percussive noise			

`	will be limited to daytime hours.	RD Team to develop land use inventory for modeling.		
Nois	se complaints to be investigated and addressed in a timely manner,	Greatest impact expected from in-river activities, occurring		
	and resolution related to the complainant per Section 5.8.	24 hrs. a day.	Noise and Lighting QoLPS have impacts and may	
	Team to develop a complaint management system. Monitoring is	RD Team to develop a monitoring and assessment	conflict with other EngPS (e.g., Productivity PS).	
	required to begin within one hour of a compliant.	plan/program for noise baseline and RA monitoring.	For example, Productivity PS assumes 24-hr/day	
	Team to develop a noise monitoring plan for RA.	RD Team to submit baseline noise monitoring report.	6 days/week while noise and lighting PS	
	ream to develop a noise monitoring plan for two.	0 1	significantly limit ability to work (dredging or capping) during evenings, nights, and weekends at the assumed rates.	
Perform:	ance Standards for Lighting			
	velop procedures to control lighting impacts to riparian properties. RD to include requirements for downlighting, shrouds and other	See Table 5.4-1 for lighting standards.		
	means to control lighting impacts to residents. Evaluate potential	Lighting "trespass" guidelines presented in Illuminating		
	impacts during RD through modeling, line of site studies, calculations, or other efforts to verify lighting will not impact local residents.	Engineering Society of North America guidance		
	anage timing and location of RA operations to avoid interference with	Conduct study of area within 2,500 feet of river to		
ivia	·	focus modeling and monitoring on areas most likely to		
	property use.	,		
	as/activities likely to cause lighting impacts should be identified during			
1	the RD and contingency plans developed to control nighttime light	RD Team to submit a light monitoring plan to EPA. RD Team to submit results in an ambient light monitoring		
- t	intrusion particularly in residual areas.	0 0	Comp of those Oct DC	
	ure lighting poses no risk to vehicular traffic in the area.	report.	Some of these QoLPS may only apply to certain portions of the work areas and at specific times.	
i .	sider impact of existing screening on light intrusion during RD and RA.	RD Team to develop compliant management system.	This should be recognized in the reports.	
Light	ting complaints to be investigated and addressed in a timely manner,		- Stould be recognized in the reports.	
	and resolution related to the complainant per Section 5.8.			
	ance Standards for Navigation / Use of River	Additional details for this item are in Section 5.5 of the	Does this mean the RD team will evaluate and	
	nnology to review and select technology (type of dredging platform,		determine type of dredging equipment to be	
i .	size of equipment), work sequence, and other project controls as	Performance Standards for Quality of Life.	used for RA, such as hydraulic vs. mechanical	
	necessary to control and minimize the impact of RA activities on		dredging?	
	other commercial and recreational users of the river.	RD Team to establish number and type of vessels to use		
The	RD will develop procedures for managing traffic on the river during	in the river during RA.		
	RA activities, maximizing alternative use as practicable.	Applicable regulations are cited as:		
Esta	ablish safe work zones around equipment during the RD.	US Code Title 33, Navigation and Navigable Waters,		
In th	he RD, develop procedures to communicate access restrictions for	Chapters 9 and 34; NJ Statutes Title 12 Commerce and		
	small vessels during RA, where necessary. Clearly identify dates	Navigation, Chapter 7-23.1, Power Vessel Noise Control		
	and locations of closures of portions of the river. Identify methods	Act; NJ Statutes Title 12 Chapter 7-45, Speed of Power		
	for identifying these areas during the RD, as well as methods for	Vessels.	What model could be used to model vessel	
	enforcing restricted access, to be implemented during the RA. The	Table 5.5-1 summarizes activities to be evaluated,	movement? We prefer to use drones to record	
			actual vessel movement in the river, in addition	
	RD team will communicate with local enforcement agencies such as	includes modeling of vessel movement and design so		
	RD team will communicate with local enforcement agencies such as the NJ marine patrol and the USCG, to obtain their input. During RA	includes modeling of vessel movement and design so that non-project-related vessel movement is not	to gathering information on these vessels. For	
	the NJ marine patrol and the USCG, to obtain their input. During RA	-	to gathering information on these vessels. For the Lower Fox River, meetings were held with	
	the NJ marine patrol and the USCG, to obtain their input. During RA implement the standards set in conjunction with the local agencies.	that non-project-related vessel movement is not hindered unnecessarily.	to gathering information on these vessels. For	
RD T	the NJ marine patrol and the USCG, to obtain their input. During RA implement the standards set in conjunction with the local agencies. Feam to consult with USCG regarding acceptable navigation aids.	that non-project-related vessel movement is not hindered unnecessarily. RD Team required to monitor vessel movement in the	to gathering information on these vessels. For the Lower Fox River, meetings were held with vessel operators to confirm/ revise information	
RD T	the NJ marine patrol and the USCG, to obtain their input. During RA implement the standards set in conjunction with the local agencies.	that non-project-related vessel movement is not hindered unnecessarily.	to gathering information on these vessels. For the Lower Fox River, meetings were held with vessel operators to confirm/ revise information regarding vessel movement and assumptions	
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Informal questions or comments for EPA on the Performance Standards